CONTENTS
(Vol. I)

Introduction 1

1. Murmur
1.0 Introduction 12
1.1 Murmur as interpreted by ancient Indian scholars 18
1.1.1 'Murmur' as a laryngeal phenomenon; a prosody 27
1.1.2 'h' as studied by modern phonetic researchers 34
1.1.3 Comparable features of ancient and modern studies 44
1.1.4 'h' in IA 45
1.2 Divetia's views 51
1.2.1 Turner's views 55
1.2.2 Pandit's views 56
1.2.3 Dave's views 64
1.2.4 Jørkensen's views 77
1.2.5 Vyas' views 90
1.3 Murmur a prosodic process 93

2. Mid-vowels
2.0 Introduction 114
2.1 Earlier Studies of mid-vowels:
   Narmad's views 117
2.1.1 Dhruva's views 117
2.1.2 Tessitori's views 120
<table>
<thead>
<tr>
<th>Section</th>
<th>Page</th>
</tr>
</thead>
<tbody>
<tr>
<td>2.1.3 Divetia's views</td>
<td>120</td>
</tr>
<tr>
<td>2.1.4 Turner's views</td>
<td>126</td>
</tr>
<tr>
<td>2.1.5 Pandit's views</td>
<td>133</td>
</tr>
<tr>
<td>2.1.6 Dave's views</td>
<td>140</td>
</tr>
<tr>
<td>2.1.7 Jørgensen's views</td>
<td>141</td>
</tr>
<tr>
<td>2.1.8 Vyas' views</td>
<td>142</td>
</tr>
<tr>
<td>2.2 Ancient Indian phonetics</td>
<td>145</td>
</tr>
<tr>
<td>2.2.1 Modern phonetics</td>
<td>165</td>
</tr>
<tr>
<td>2.2.2 Phonation types, mid-vowels and dialect areas</td>
<td>166</td>
</tr>
<tr>
<td>2.2.3 The diphthongal quality of mid-vowels as studied by the modern</td>
<td>184</td>
</tr>
<tr>
<td>researchers</td>
<td></td>
</tr>
<tr>
<td>2.2.4 The inherent vulnerability to lowering and the contextual</td>
<td>193</td>
</tr>
<tr>
<td>lowering of mid-vowels</td>
<td></td>
</tr>
<tr>
<td>2.2.5 Support from the Gujarati data</td>
<td>206</td>
</tr>
<tr>
<td>2.3 The lowering and duration of mid-vowels</td>
<td>231</td>
</tr>
<tr>
<td>2.3.1 Further phonetic support</td>
<td>249</td>
</tr>
<tr>
<td>2.4 Conclusions</td>
<td>258</td>
</tr>
<tr>
<td>Appendix I. Data for Murmur</td>
<td>268</td>
</tr>
</tbody>
</table>

**CONTENTS**

(Vol. II)

3. Nasalization in Gujarati
   3.0 Introduction
   3.1 Views of ancient Indian treatises
3.2 Modern phonetic views

3.2.1 Acoustic researches

3.3 Anticipatory coarticulation

3.3.1 Nasalization in Gujarati

3.3.2 Regressive/Progressive coarticulatory nasalization in Gujarati

3.3.3 The role of perception and identification in phonology

3.4 N-loss nasalization

3.4.1 'a + N + voiceless consonant'

3.4.2 V + N + voiced consonants

3.4.3 Nasalized vowels in indigenous words

3.4.4 Nasalization of the vowel 'u' in the final position

3.4.5 Questions from the data

3.5 Divetia's view points

3.5.1 Turner's view points

3.5.2 Pandit's view points

3.6 Answers to the question

3.6.1 Phonetics of voiced consonants

3.6.2 Nasality in Marathi

3.6.3 Nasalization as a process occurs uniformly

3.6.4 Relationship between 'ɔ' and 'a'

3.6.5 Different manifestations of 'ɔ + N' in Gujarati

3.6.6 Nasalization and lowering

3.6.7 Strengthening and weakening processes.
3.7 Summary

3.7.1 Nasalization and asegmentality

4. Syllables, Syllabication in Gujarati

4.0 Introduction

4.1 'Syllables' in ancient Indian treatises

4.1.1 Discrete segments and continuum of speech

4.2 Syllable in modern researches

4.2.1 Segments versus syllables

4.2.2 Syllabication

4.3 Syllabication of Gujarati

4.3.1 Initial Sanskritic clusters

4.3.2 Medial Sanskritic clusters

4.3.3 Final clusters

4.4 Indigenous clusters

4.4.1 Homorganic nasal + consonant

4.4.2 Clusters in morphemic extensions

4.5 Medial sequences

4.5.1 Indigenous derivational endings

4.5.2 Interludes and ambisyllabicity

4.6 Strength hierarchy of consonants

4.6.1 Evidence for the strength hierarchy

4.6.2 Rules for syllabication

4.6.3 The functions of syllable

4.7 Stress, length and syllable
4.7.1 Stress-length rules 628
4.7.2 Rhythmicity and syllables 629

5. Conclusion

5.0 The plan for the concluding chapter 632
5.1 Major recent approaches to phonological theory 632
5.1.1 Atomic phonology 635
5.1.2 The phonological component as a parsing device 637
5.1.3 Natural Generative Phonology 638
5.1.4 Natural phonology 640
5.1.5 Dependency phonology 642
5.1.6 Autosegmental phonology 645
5.2 Selection of the approach 650
5.2.1 Schema of rules 655
5.2.2 Rules 658
5.3 Concluding remarks: Admissions, claims, proposals and suggestions. 666

Appendix II. Data for Nasalization 670

Bibliography 709